**Tutorial # 3**

**Question#1:** What is the output of the following programs?

1 Dim number As Integer

2

3 number = 1234

4

5 ' extract digits

6 digit1Label.Text = number \ 1000

7 digit2Label.Text = (number Mod 1000) \ 100

8 digit3Label.Text = (number Mod 100) \ 10

9 digit4Label.Text = number Mod 10

digit1Label.Text =1, digit2Label.Text =2, digit3Label.Text =3, digit4Label.Text=4

1 Private Sub donationButton\_Click(ByVal sender As

2 System.Object, ByVal e As System.EventArgs) \_

3 Handles donationButton.Click

4

5 Select Case Val(donationTextBox.Text)

6 Case 0

7 messageLabel.Text = "Please consider donating to our cause."

8 Case 1 To 100

9 messageLabel.Text = "Thank you for your donation."

10 Case Is > 100

11 messageLabel.Text = "Thank you very much for your donation!"

12 Case Else

13 messageLabel.Text = "Please enter a valid amount."

14 End Select

15 End Sub

|  |  |
| --- | --- |
| **Input (donationTextBox.Text)** | **Output (messageLabel.Text)** |
| Hello | Please consider donating to our cause. |
| 179 | Thank you very much for your donation! |
| 0 | Please consider donating to our cause. |
| 100 | Thank you for your donation. |

1 Dim age As Integer

2

3 age = ageTextBox.Text

4

5 If age < 0 Then

6 ageLabel.Text = "Enter a value greater than or equal to zero."

7 ElseIf age < 13 Then

8 ageLabel.Text = "Child"

9 ElseIf age < 20 Then

10 ageLabel.Text = "Teenager"

11 ElseIf age < 30 Then

12 ageLabel.Text = "Young Adult"

13 ElseIf age < 65 Then

14 ageLabel.Text = "Adult"

15 Else

16 ageLabel.Text = "Senior Citizen"

17 End If

|  |  |
| --- | --- |
| **Input (**ageTextBox.Text**)** | **Output (**ageLabel.Text**)** |
| 75 | Senior Citizen |
| 13 | Teenager |
| 25 | Young Adult |
| -100 | Enter a value greater than or equal to zero |

**Question#2: Determine the order of execution for the following statements:**

1. If (x+y) and 6 <= z\3\*4 Then ....EndIf
2. ()
3. \*
4. \
5. <=
6. and
7. x^=(y+4 Mod 2)
8. ( )
9. Mod
10. +
11. ^=